IN THE CLAIMS:

1. (Currently Amended) An optical device, comprising:

a membrane configured to be electrically deformable and reflective and positioned over a cavity located within a substrate;

a transmissive spacer coupled to said substrate and located over said cavity; and

a lens coupled to said transmissive spacer and optically aligned with said membrane, wherein said transmissive spacer has a thickness substantially equal to a focal length of said lens.

2. (Original) The optical device as recited in Claim 1 further comprising a fiber holder coupled to said lens.

3. (Original) The optical device as recited in Claim 1 wherein said membrane is located over a first substrate having a first alignment mark and said transmissive spacer is formed from a second substrate having a second alignment mark that corresponds to said first alignment mark to provide alignment of said first substrate with said second substrate.

4. (Original) The optical device as recited in Claim 1 wherein said transmissive spacer comprises a material selected from the group consisting of:

silicon;

ceramic;

fused silica; and

infrared-transparent optical glass.

5. (Original) The optical device as recited in Claim 1 wherein said transmissive spacer forms a lumen between said lens and said membrane and wherein said lumen contains air or an inert atmosphere or wherein at least a partial vacuum exists between said lens and said membrane.

6. (Cancel without prejudice or disclaimer).

7. (Original) The optical device as recited in Claim 1 further comprising terminals on an exterior of said optical device and connected to said membrane and configured to provide an electrical current to said membrane.

8. (Currently Amended) A method of manufacturing an optical device, comprising:

positioning a membrane configured to be electrically deformable and reflective over a cavity located within a substrate;

coupling a transmissive spacer to said substrate such that said transmissive spacer is located over said cavity; and

coupling a lens to said transmissive spacer and optically aligned with said membrane, wherein said transmissive spacer has a thickness substantially equal to a focal length of said lens.

9. (Original) The method as recited in Claim 8 wherein positioning further includes positioning a plurality of said membranes over a corresponding one of a plurality of cavities located in said substrate, and wherein coupling a transmissive spacer further includes coupling a transmissive spacer to each of said membranes, and coupling a lens includes coupling a lens to each of said transmissive spacers, and the method further includes coupling a fiber holder to each of said lenses.

10. (Original) The method as recited in Claim 8 further comprising coupling a fiber holder to said lens.

11. (Original) The method as recited in Claim 8 wherein said membrane is formed on a first substrate having a first alignment mark, and said transmissive spacer is formed from a second substrate having a second alignment mark, and wherein coupling said transmissive spacer includes coupling said second substrate to said first substrate by using said first and second alignment marks.

12. (Cancel without prejudice or disclaimer).

Claims 13-20 (canceled)